

## ABSTRACT OF THE DISCLOSURE

A computer system and a computer-implemented method for generating test programs that satisfy at least one termination criterion. The computer system includes a hardware unit to transmit data. A processor is coupled to the hardware unit and to a storage device. The storage device has stored therein at least one algorithm and a plurality of routines. When the processor executes a routine(s), data is generated. The routine causes the processor to access an algorithm, generate a test program, and analyze a test program. A computer implemented method is also disclosed for generating test programs.

SECRET - SECURITY